In a talk "Some Unusual Optics" before the Rochester Section, Optical Society of America on January 26, 1964, I should like to include the use of coherent light in photographic enlargers. The material will be organized as follows:

- I. Information transmission as part of enlargers
- II. Optical transfer function as a measure of information transmission properties
- III. Limitations of lens designs and fabrication for small f/mos.
- IV. Optical transfer function with incoherent and coherent light. (Optical schematic indicating spectrum plane)
  - V. The penalties of using coherent light
    - 1. Artifacts produced by imperfect leases
    - 2. Artifacts produced by high contrast images (ringing)

The remainder of the talk will be devoted to the fabrication and testing of some unusual optics, lightweight mirrors, and the description of a special instrument vintage '54 - '55 for measuring the optional transfer function of long focal length lenses.